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PATENT COOPERATION TREATY

INTERNATIONAL SEARCHING AUTHORIT	Υ ·				
To:			PCT		
Griffith Hack			101		
GPO Box 1285K					
MELBOURNE VIC 3001		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY			
			(PCT Rule 43bis.1)		
		Date of mailing 1 0 FEB 2005 (day/month/year)			
Applicant's or agent's file reference FP20892 AJFW		FOR FURTHER ACT	FION See paragraph 2 below		
International application No.	International filing date	(day/month/year)	Priority date (day/month/year)		
PCT/AU2004/001765	15 December 2004		15 December 2003		
Int. Cl. ⁷ F03C 1/053; F16H 21/20; F		ation and IPC			
Applicant					
HYDROSTATIC DESIGN TECH	HYDROSTATIC DESIGN TECHNOLOGY PTY LTD et al				
This opinion contains indications relations	ing to the following ite	ems:			
Box No. I Basis of the opinion	•				
Box No. II Priority	<u> </u>				
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
	Lack of unity of invention				
	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
Box No. VII Certain defects in th	II Certain defects in the international application				
Box No. VIII Certain observations	rtain observations on the international application				
2. FURTHER ACTION	FURTHER ACTION				
If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.					
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.					
For further options, see Form PCT/ISA/220.					
3. For further details, see notes to Form PCT/ISA/220.					
Name and mailing address of the IPEA/AU Authorized Office					
AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA		ASANKA PERER	Δ		
E-mail address: pct@ipaustralia.gov.au		Telephone No. (02)			
Facsimile No. (02) 6285 3929					

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/AU2004/001765

Box	r No. I	Basis of the opinion
1.		d to the language, this opinion has been established on the basis of the international application in the language in as filed, unless otherwise indicated under this item.
	the fol	opinion has been established on the basis of a translation from the original language into llowing language, which is the language of a translation furnished for the purposes of ational search (under Rules 12.3 and 23.1(b)).
2.		d to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the vention, this opinion has been established on the basis of:
	a. type of	material
	a	sequence listing
	☐ ta	able(s) related to the sequence listing
	b. format o	of material
·	ir	n written format
	ir	a computer readable form
	c. time of	filing/furnishing
	c	ontained in the international application as filed.
	i fi	led together with the international application in computer readable form.
	fi	urnished subsequently to this Authority for the purposes of search.
3.	filed o	ition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been or furnished, the required statements that the information in the subsequent or additional copies is identical to that application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Additional of	comments:

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10/582961 AP3 Rec'd PCT/PTO 15 JUN 2008

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/AU2004/001765

Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1. Statement					
Nov	elty (N)	Claims 1-16	YES		
		Claims	NO		
Inve	entive step (IS)	Claims 4-14	YES		
		Claims 1-3, 15, 16	NO		
Indu	strial applicability (IA)	Claims 1-16	YES		
		Claims	NO		

Citations and explanations:

The following documents identified in the International Search Report have been considered for the purposes of this report:

D1: DE 3936649A1

D2: SU 1002611A

D3: SU 1775007A3

D4: SU 1789750A1

D5: US 5588339A

D6: JP 11190326A

D7: DE 3711729A1

D8: EP 0271456B1

Inventive Step (IS)

Claims 1, 15, 16

D1, D4-D8 individually disclose fluid machines with adjustable crank throws. D1 and D4 in particular shows crankshafts supporting multiple piston/cylinder arrangement. Given this disclosure, a radial arrangement of such pistons and limiting such arrangements to specified angular spacings are considered non-inventive design variations within the common general knowledge of person skilled in the art.

Claims 2, 3

D2 teaches the use of spherical bearing in an adjustable stroke piston engine and thus in obvious combination with D1, this document renders the subject matter of claim 2 lacking an inventive step over the cited art.

D3 teaches an adjustable stroke piston pump with the stoke being adjustable between zero to a maximum and thus in obvious combination with D1, this document renders the subject matter of claim 3 lacking an inventive step over the cited art.